

PATENT

Atty. Dkt. No.: NVDA/P002852

IN THE CLAIMS:**RECEIVED
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Please amend the claims as follows:

Claim 1 (Currently Amended): A computer implemented method for performing a frequency-domain transform on frames of pixel values in a time-domain signal having a sequence length N defining a pixel value, wherein the method is executed by a processor, the method comprising

decomposing the time-domain signal to a plurality of decomposed signals, wherein each of the plurality of decomposed signals includes a sequence length less than N;

performing a transform on the plurality of decomposed signals to obtain a transformed signal;

composing the plurality of transformed signals to obtain a composed signal, including a sub step of

scaling at least one of the transformed signals to define the pixel value.

Claim 2 (Original): The method of claim 1, further comprising

determining a value for a scale factor based on N; and

using the determined value for a scale factor in the sub step of scaling at least one of the transformed signals.

Claim 3 (Original): The method of claim 2, wherein the steps of claim 1 are performed in real time and wherein the step of determining a value for a scale factor is performed in non-real time.

Claim 4 (Original): The method of claim 1, further comprising

determining a value for a scale factor; and

using the determined value for a scale factor in the substep of scaling at least one of the transformed signals.

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Claim 5 (Original): The method of claim 4, wherein a value for a scale factor is a constant.

Claim 6 (Original): The method of claim 5, wherein a value for a scale factor is zero.

Claim 7 (Original): The method of claim 1, wherein the frequency-domain transform includes a discrete cosine transform.

Claim 8 (Original): The method of claim 7, wherein the substep of scaling at least one of the transformed signals includes a sub step of

$$\text{using a factor of } \frac{1}{2 \cos(\frac{\pi k}{N})}$$

Claim 9 (Currently Amended): An apparatus for performing a frequency-domain transform on a time-domain signal defining a frame of pixel values having a sequence length N, the apparatus comprising

a processor;

a decomposing process for decomposing the time-domain signal to a plurality of decomposed signals, wherein each of the plurality of decomposed signals includes a sequence length less than N;

a transform process for performing a transform on the plurality of decomposed signals to obtain a transformed signal;

a composing process for composing the plurality of transformed signals to obtain a composed signal; and

a scaling process for scaling at least one of the transformed signals to define the pixel values.

Claim 10 (Currently Amended): A computer-readable medium including instructions executable by a processor for performing a frequency-domain transform on a time-domain signal on frames of pixel values having a sequence length N, ~~the computer-readable medium including by performing the steps of:~~

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~~one or more instructions for~~ decomposing the time-domain signal to a plurality of decomposed signals, wherein each of the plurality of decomposed signals includes a sequence length less than N;

~~one or more instructions for~~ performing a transform on the plurality of decomposed signals to obtain a transformed signal;

~~one or more instructions for~~ composing the plurality of transformed signals to obtain a composed signal; and

~~one or more instructions for~~ scaling at least one of the transformed signals to define the pixel values.

Claim 11 (New): The method of claim 10, further comprising
determining a value for a scale factor based on N; and
using the determined value for a scale factor in the sub step of scaling at least one of the transformed signals.

Claim 12 (New): The method of claim 11, wherein the steps of claim 1 are performed in real time and wherein the step of determining a value for a scale factor is performed in non-real time.

Claim 13 (New): The method of claim 10, further comprising
determining a value for a scale factor; and
using the determined value for a scale factor in the substep of scaling at least one of the transformed signals.

Claim 14 (New): The method of claim 13, wherein a value for a scale factor is a constant.

Claim 15 (New): The method of claim 14, wherein a value for a scale factor is zero.

Claim 16 (New): The method of claim 10, wherein the frequency-domain transform includes a discrete cosine transform.

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Claim 17 (New): The method of claim 16, wherein the substep of scaling at least one of the transformed signals includes a sub step of

using a factor of $\frac{1}{2 \cos(\frac{\pi K}{N})}$